

# **SPR Work Program**

# What is the Work Program?

- Outlines transportation planning activities that are to be funded with federal State Planning and Research (SPR) Funds
- Required by 23 CFR 450
- Activities listed in the work program are eligible for reimbursement
- Indicates emphasis areas for the year
- Must show what items are to be outsourced or performed by others
- Must report at end of year how funds actually spent

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DIVISION OF PLANNING



Our mission is to collect, maintain, analyze and report accurate data for making sound fiscally responsible recommendations regarding the maintenance, operation and improvement of our transportation network



[HOW WE BUILD ROADS](#)

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Where Do I Find?

- [Official Highway Map](#)
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### Introduction

The Planning and Research Program Annual Work Program describes transportation planning activities as required under 23 CFR 420.111. Part I of the work program outlines the activities performed by the Division of Planning and Parts II and III summarize research.

### Introduction

**June 16, 2007 - June 15, 2008** [report](#)

[Planning Work Program](#)

Annual Performance and Expenditure Report  
available Sept. 2008

**June 16, 2006 - June 15, 2007** [report](#)

[Planning Work Program](#)

[Annual Performance and Expenditure Report](#)

**June 15, 2005 - June 15, 2006** [report](#)

**June 15, 2004 - June 15, 2005** [report](#)

**June 15, 2003 - June 15, 2004** [report](#)

**June 15, 2002 - June 15, 2003** [report](#)

# Work Program Chapters

- Customer Service
- Personnel Training
- Traffic & Equipment Management
- Roadway Systems
- Cartography
- Highway Information Systems
- Highway Network Coordination and Analysis
- Strategic Corridor Planning
- Statewide Transportation Planning
- Metropolitan Planning Organizations
- Air Quality Conformity Analysis
- Multimodal Planning and Technical Assistance
- Congestion, Mobility, and Access Management
- Traffic Data Forecasting
- Bicycle and Pedestrian Program

## CHAPTER 3

## Traffic and Equipment Management

### RESPONSIBLE UNIT

Division of Planning  
Traffic and Equipment Management Branch

### PURPOSE AND SCOPE

The Equipment Management Team focuses on the identification, purchase, repair/maintenance, placement, and operation of various pieces of traffic data collection equipment statewide with the Districts and within the Division.

The Traffic Data Collection and Processing Team, working with our Highway District Offices, assign, process, analyze, and provide access to traffic volume and vehicle classification data for highway planning, design, reporting to FHWA, transportation decisions, and various other purposes. This involves making a significant number of short duration (usually 48 hours) portable machine counts on the State Highway System and state-maintained local roads. An adequate program of continuous traffic counting stations (ATRs) provides the basis for factoring short-term counts. Vehicle classification data will be assigned, processed, and made available to Cabinet staff for analytical and forecasting purposes.

### PROPOSED ACTIVITIES FOR 2007-2008

- Maintain, update, analyze, provide quality control and assurance of data, and make available data from more than 13,500 traffic count stations.
- Work with the Highway District Offices to perform approximately 6,500 regularly scheduled short-duration portable machine counts yearly which are one-third of all short-duration traffic count stations.
- In accordance with the Traffic Monitoring Guide, collect and process vehicle classification data for approximately 1,500 stations, which is 25-30% of all traffic count stations statewide.
- Review, assign, process, analyze, and distribute data for approximately 400 special count stations that have been requested by outside divisions.
- Collect volume and classification data on 200 interstate stations.
- Collect, process, analyze, and submit quarterly one week of weigh-in-motion (WIM) data at 28 permanent WIM stations and submit 48 hours of WIM data at ten portable WIM stations. Periodically calibrate and assess equipment for adjustments in order to obtain quality data.
- Download, process, repair, maintain, and analyze data from 80+ permanent ATR stations. Review proper operation, locations, and coverage for possible new ATR station installations. Install additional stations as necessary.
- Update axle and monthly factors used in adjusting short counts, such as weekly, monthly, and axle correction factors from data collected at ATR and vehicle classification stations.
- Investigate and purchase new technologies, sensors, data recorders, and communication devices developed for the traffic-counting industry to provide for safer, more efficient and more accurate methods of collection.
- Certify, repair, and maintain approximately 600 traffic data recorders.
- Install, inspect, repair, and maintain 400 permanent vehicle sensor locations.

## RESPONSIBLE UNIT

Division of Planning

Traffic and Equipment Management Branch

- Track emerging highway projects and produce plans and specifications for new and replacement traffic sensor installations for submittal into construction and pavement rehabilitation contracts.
- Update in-house databases to include any new stations or roadway alignment changes. Correct beginning and ending milepoints to better represent traffic generators.
- Detect, analyze, and adjust volume counts while combining and creating additional stations where necessary.
- Work with the FHWA to document the entire TMS process.
- Provide oversight of consultants/contractors to assist the Division TMS field data collection. Process and provide quality control and assurance of those counts. Provide storage and analysis of those counts.
- Review, analyze, and update data summaries for vehicle weights and calculating Equivalent Single Axle Loads (ESALs).
- Investigate, evaluate and purchase new software to move mainframe vehicle classification and potentially volume data to a pc-based software with much more capabilities for display, trend analysis, and viewing that also works with the upgrade of HIS. Begin the process of converting the existing vehicle classification file from a mainframe to a PC environment.

## PRODUCTS

- Short-duration portable machine volume and classification counts
- Perform and Process data for special counts
- Install, maintain and process data from permanent Automatic Traffic Recorders (ATRs)
- Updated axle, monthly factors, and correction factors
- Updated and maintained databases of count data, count stations, or other associated data
- Weigh-in-motion data
- Install, maintain and process volume and classification data from permanent vehicle sensor locations at high volume and other locations where it is infeasible to conduct portable counts

## DISTRIBUTION OF ESTIMATED COST FOR 2007-2008

PERSONNEL	\$4,093,200
OTHER	\$1,000,000
TOTAL	\$5,093,200

**CHAPTER 3**

Traffic and Equipment Management (continued)

**RESPONSIBLE UNIT**Division of Planning  
Traffic and Equipment Management Branch**ESTIMATED OUTSOURCING EXPENSES AND PURCHASES**

- \$500,000 for outsourced Loop and Piezo Repairs.
- \$1,950,000 contract for outsourced traffic counts and sensor installations.
- \$120,000 for Weigh-In-Motion (WIM) Research.
- \$400,000 for Traffic Management System Software.
- \$150,000 for purchase of new Automatic Traffic Data Recorders.



# Work Program Chapters that the Districts should be using

- Chapter 2 – Personnel Training
- Chapter 3 – Traffic & Equipment Management (Traffic Counts)
- Chapter 4 – Roadway Systems (Official Orders)
- Chapter 9 – Strategic Corridor Planning (if do not have a project number for a planning study)
- Chapter 10 – Statewide Transportation Planning (ADD committees and Statewide Planning Meetings)
- Chapter 11 – Metropolitan Planning Organizations (MPO meetings – Districts 2, 3, 4, 5, 6, 7, & 9 only)
- Chapter 13 – Multimodal Planning and Technical Assistance (Freight, ferries, rail)
- Chapter 15 – Traffic Data Forecasting (assistance with Traffic Forecasts)
- Chapter 16 – Bicycle and Pedestrian Program (if you assist Special Programs with a Bike/Ped issues)

# What you should do...

- Review your portions of the work program
- Make sure you charge to appropriate chapters
  - Charge numbers have been provided both the CO and District Branch Managers
- Recommend changes or items to incorporate in the next work program
- Watch your budget numbers
- Items that are not eligible under the Work Program should be charged to a different project or overhead